

Docket No.: PF-0111-3 CON
Inventors: Baileul et al.
Title: NOVEL HUMAN LEPTIN RECEPTOR GENE-RELATED PROTEIN
Serial No.: 09/993,756

	9	18	27	36	45	54											
5' TCT	GGC	TTG	GGC	AGG	CTG	CCC	GGG	CCG	TGG	CAG	GAA	GCS	GGA	AGC	AGC	CGC	GGC
	63	72	81	90	99	108											
CCC	AGT	TCG	GGA	GAC	ATG	GGC	GGC	GTT	AAA	GCT	CTC	GTG	GCA	TTA	TCC	TTC	AGT
		M	A	G	V	K	A	L	V	A	L	S	F	S			
	117	126	135	144	153	162											
GGG	GCT	ATT	GGA	CTG	ACT	TTT	CTT	ATG	CTG	GGA	TGT	GCC	TTA	GAG	GAT	TAT	GGC
G A	I	G	L	T	F	L	M	L	G	C	A	L	E	D	Y	G	
	171	180	189	198	207	216											
GTT	TAC	TGG	CCC	TTA	TTC	GTC	CTG	ATT	TTC	CAC	GGC	ATC	TCC	CCC	ATC	CCC	CAT
V Y	W	P	L	F	V	L	I	F	H	G	I	S	P	I	P	H	
	225	234	243	252	261	270											
TTC	ATT	GCC	AAA	AGA	GTC	ACC	TAT	GAC	TCA	GAT	GCA	ACC	AGT	AGT	GCC	TGT	CGG
F I	A	K	R	V	T	Y	D	S	D	A	T	S	S	A	C	R	
	279	288	297	306	315	324											
GAA	CTG	GCA	TAT	TTC	TTT	CTC	ATT	GGA	ATT	GTT	GTT	TCT	GCC	TTT	GGA	TTT	CCT
E L	A	Y	F	F	T	T	G	I	V	V	S	A	F	G	F	P	

FIGURE 1A



333	342	351	360	369	378
GTT ATT CTT GCT GTG GCT GTG ATC AAA TGG GGA GCC TGC TGC CTT GTG					TTG
V I L A A R V A V I K W G A C G L V L					
387	396	405	414	423	432
GCA GGC AAT GCA GTC ATT TTC CTT ACA ATT CAA GGG TTT TTC TTT ATA TTT					GGA
A G N A A V I F L T I Q G F F F I F G					
441	450	459	468	477	486
AGA GGA GAT GAT TTT AGC TGG GAG CAG TGG TAG CAC TTT ATT CTG ATT ACA					GTG
R G D D F S W E Q W					
495	504	513	522	531	540
CAT TGA ATT TCT TAG AAC TCA TAC TAC CTG TAT ACA TGT GCA CAT GCG GCA					TTT
549	558	567	576	585	594
TAC TAT GAA ATT TAA TAT GCT GGG TTT TTT AAT ACC TTT ATA TAT CAT GTT					CAC
603	612	621	630	639	648
TTT AAG AAA GAC TTC ATA AGT AGG AGA TGA GTT TTA TTC TCA GCA AAT AGA					CCT

FIGURE 1B

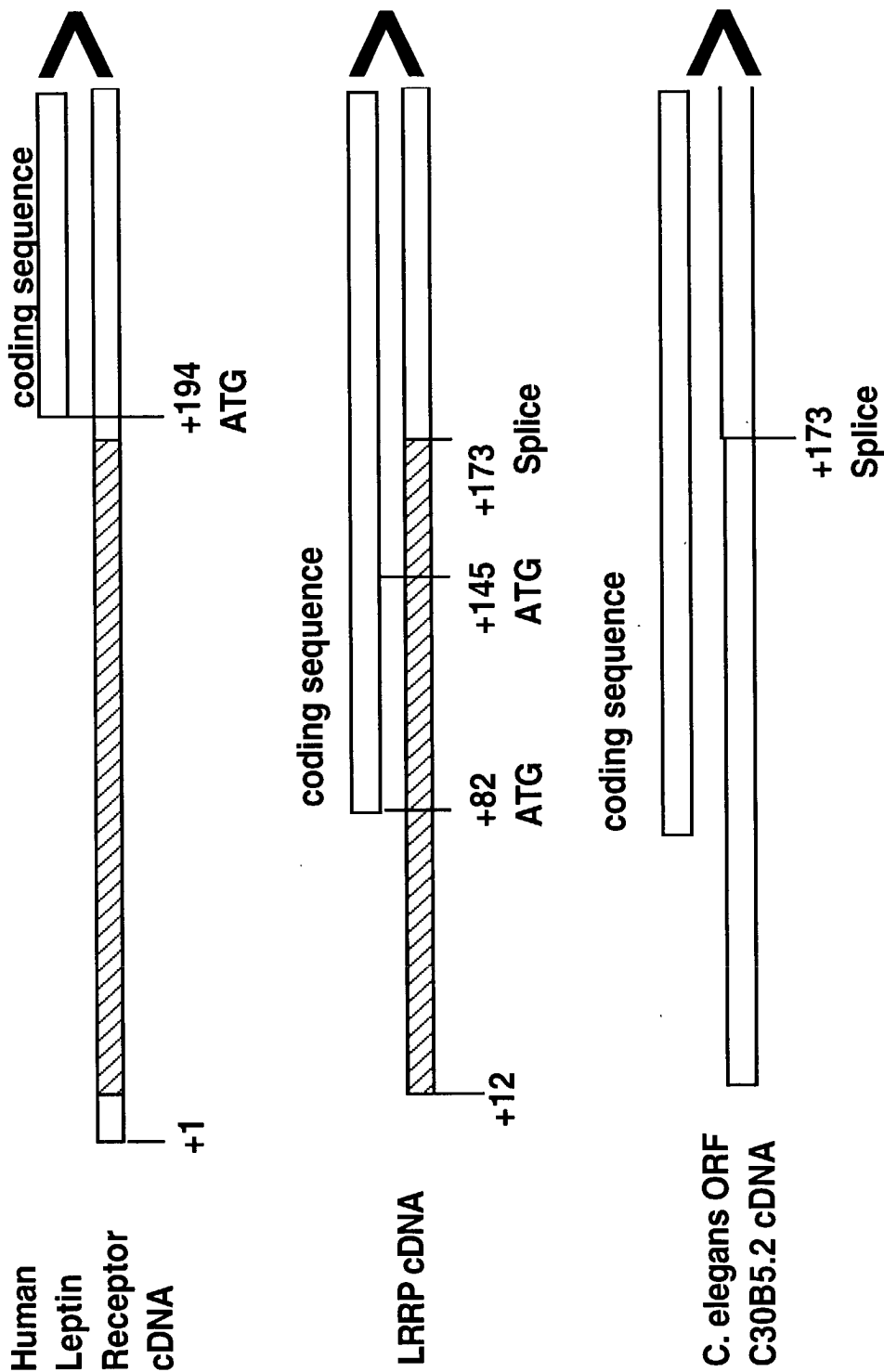
657	666	675	684	693	702
GTC AAA TTT AGA TTA TGT TAC TCA AAT TAT GTT ACT TGT TTG GCT GTT CAT GTA					
711	720	729	738	747	756
GTC ACG GTG CTC TCA GAA AAT ATA TTA ACG CAG TCT TGT AGG CAG CTG CCA CCT					
765	774	783	792	801	810
TAT GCA GTG CAT CGA AAC CTT TTG CTT GGG GAT GTG CTT GGA GAG GCA GAT AAC					
819	828	837	846	855	864
GCT GAA GCA GGC CTC TCA TGA CCC AGG AAG GCC GGG GTG GWT CCC TCT TTK TTT					
873					
TGT AGT CCA 3'					

FIGURE 1C

The Electronic Northern for Clone: 492703
and Stringency >= 50

Library	Lib Description	Abun	Pct Abun
RATRN0T01	heart, right atrium, 51 F	1	0.0861
SYNORAB01	synovium, hip, rheumatoid, 68 F	4	0.0779
LIVRNOM01	liver, 49 M, WM	1	0.0254
PLACNOB01	placenta, neonatal F	1	0.0225
BRSTNOT01	breast, 56 F	1	0.0192
HNT2AGT01	hNT-2 cell line, post-mitotic neurons	1	0.0190
HNT2NOT01	hNT-2 cell line, teratocarcinoma, control	1	0.0172
BRSTTUT03	breast tumor, 58 F, match to BRSTNOT05	1	0.0148
COLNFET02	colon, fetal F	1	0.0142
UCMCL5T01	lymphocytes (umbilical cord), treated IL-5	1	0.0125
MELANOM01	melanocytes, M, NORM, WM	1	0.0108
PLACNOM02	placenta, neonatal F, NORM, WM	1	0.0056

FIGURE 2



* Numbering relative to human leptin receptor
Hatched area represents identical sequences

FIGURE 3

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

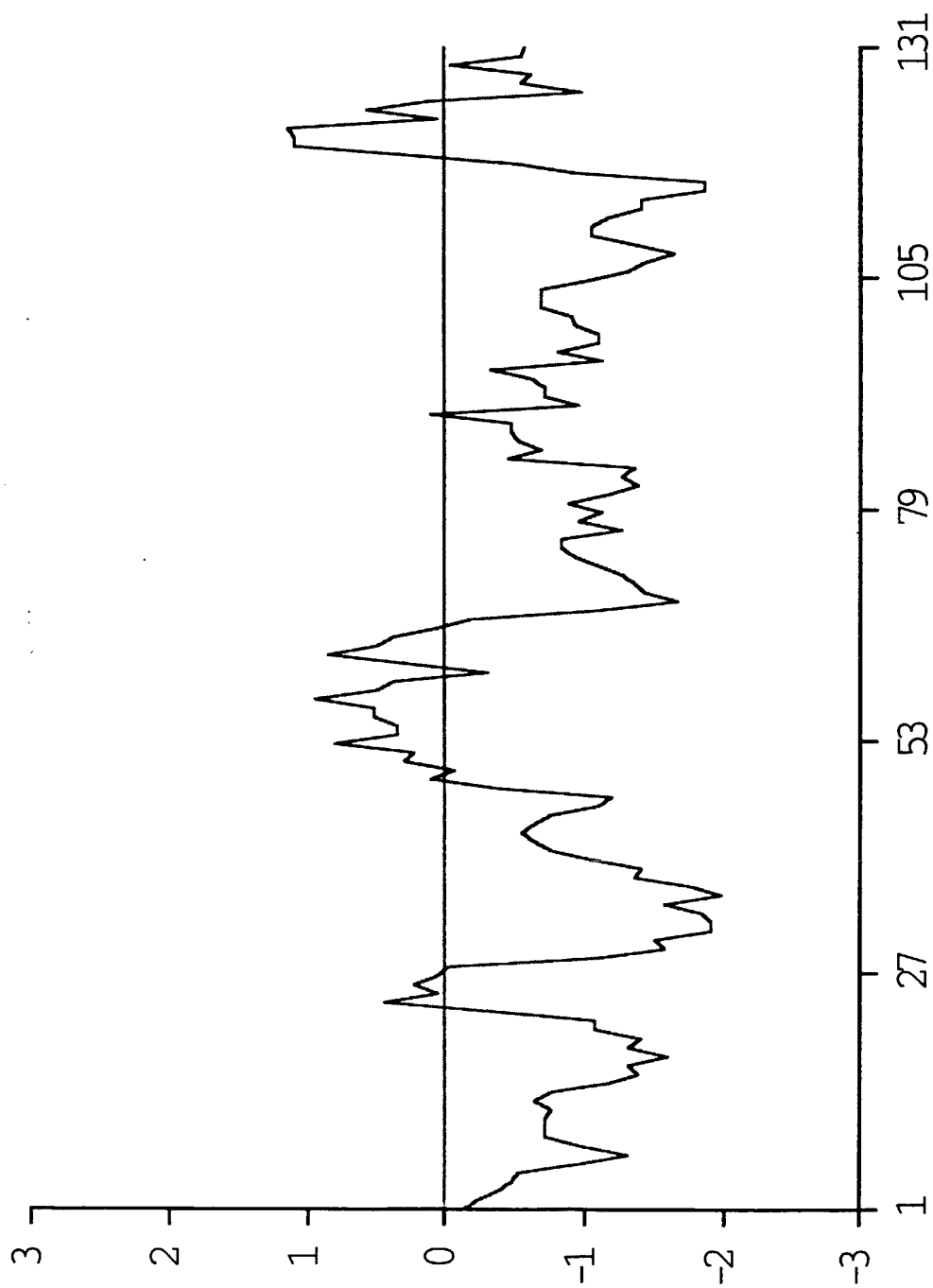
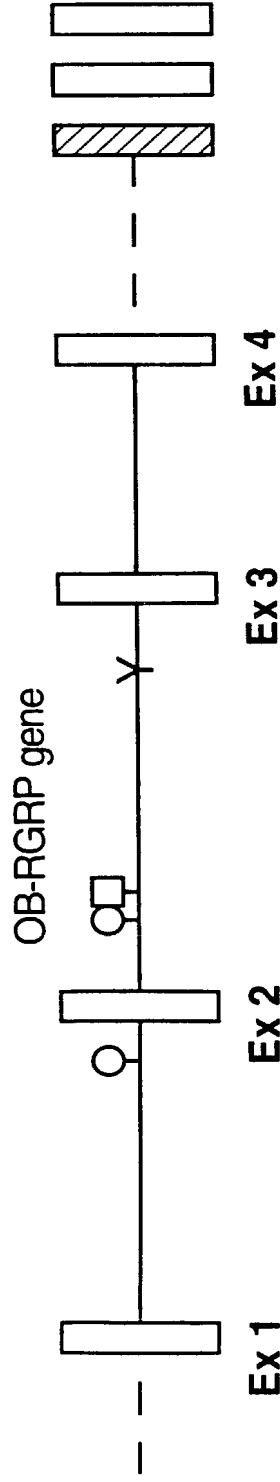


FIGURE 5



Human genomic organization of OB-RGRP



Exon/intron junctions of OB-RGRP gene

MetAlaGlyValLysA	INTRON 1	IaLeuValAlaLeuSer
ATGGCGGGCGTTAAAGgtacatcgcg	4.3 KB	cttttggctttatttttcacagCTCTCGTGGCATTATCC
AlaLeuGluAspTyrG1	INTRON 2	yValTyrTrpProLeu
GCCTTAGAGGATTATGGgtaagtt	4.5 KB	(t)10ggattttgcctgggtccaactgacagCGTTTACTGCCCCCTTA
LeuAlaArgValAlaVal	INTRON 3	IleLysTrpGlyAla
CTTGCTCGTGTGGCTGTGgtaagttt	2.0 KB	tcctctttttcttctgtcttttcagATCAAATGGGGAGCC

FIGURE 7

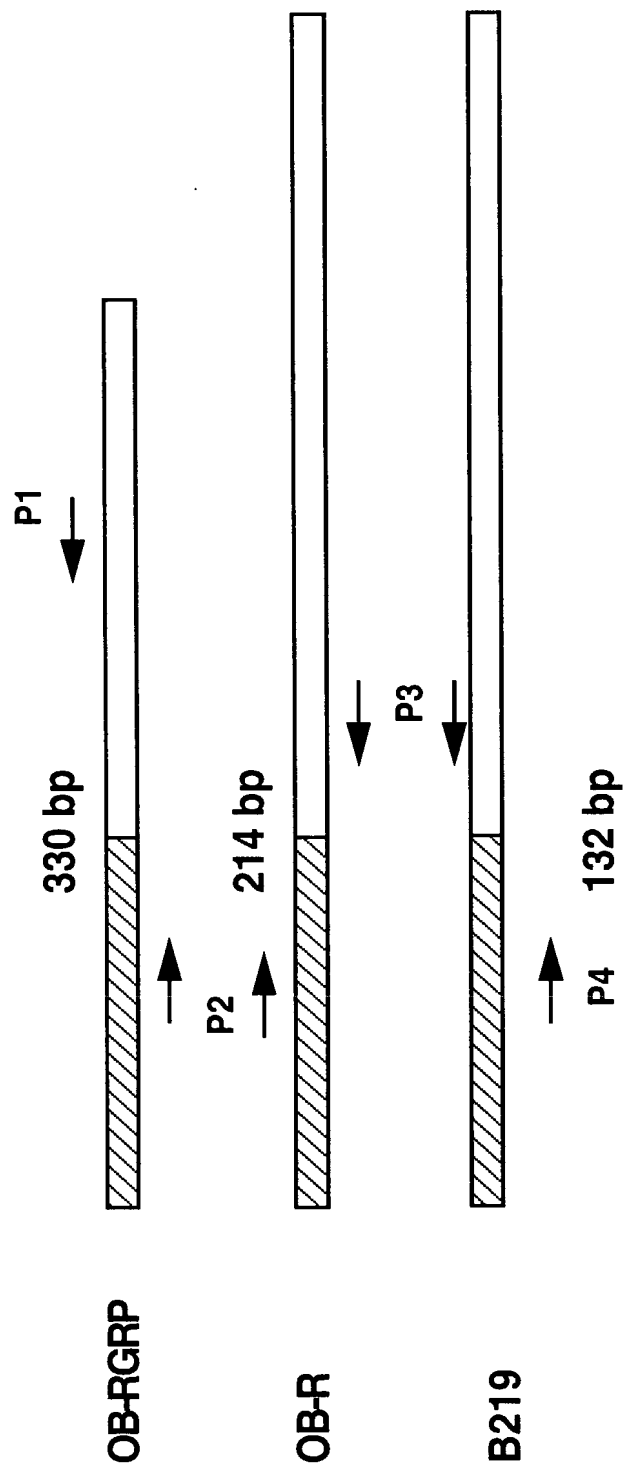


FIGURE 8

D11
330 bp
OB-R
214 bp
B219
132 pb

